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(54) Title: APPARATUS AND METHOD OF CONTROLLING TRANSMITTING POWER IN A SUBSCRIBER TERMINAL OF A WIRELESS TELECOMMUNICATIONS SYSTEM

(57) Abstract

A wireless telecommunications system (1) includes a central terminal (10) for transmitting and receiving radio frequency signals to and from a subscriber terminal (20). A downlink communication path is established from a transmitter (200) of the central terminal (10) to a receiver (202) of the subscriber terminal (20). A downlink signal (212) is transmitted from the transmitter (200) to the receiver (202) during setup and operation of the wireless telecommunications system (1). The downlink signal (212) includes an overhead channel (224) having a power control signal (236). The power control signal (236) is capable of adjusting a transmitting power of a transmitter (204) in the subscriber terminal (20). Adjustment of the transmitting power of the transmitter (204) facilitates establishment and maintenance of an uplink communication path between the transmitter (204) of the subscriber terminal and a receiver (206) of the central terminal (10).

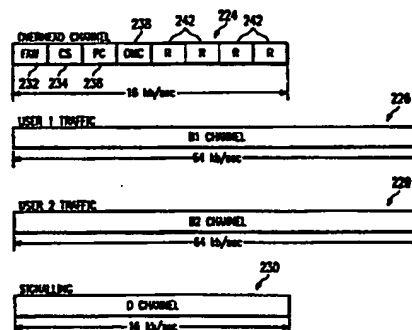


FIG. 1. PCT-DCP Interface Map

PC Control Byte							
07	08	09	0A	0B	0C	0D	0E
07:00							
0C0B	Coarse Power Increment (168 Steps)						High Rate
0C0C	Coarse Power Decrement (168 Steps)						High Rate
0C0D	No change						High Rate
0C0E	Fine Power Increment (0.168 Steps)						High Rate
0C0F	Fine Power Decrement (0.168 Steps)						High Rate
0C3B	Coarse Power Increment (168 Steps)						Low Rate
0C3C	Coarse Power Decrement (168 Steps)						Low Rate
0C3D	No change						Low Rate
0C3E	Fine Power Increment (0.168 Steps)						Low Rate
0C3F	Fine Power Decrement (0.168 Steps)						Low Rate
0C6B	Reset to minimum power output						
0C6C	Reset to minimum power output (using MINRM value)						

NOTE: All received tones place the of the RAL to decode the command. All received data must be used.